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## AMENDMENTS TO THE CLAIMS

(Currently Amended) A power transmitting fluid for use in a transmission having a steel-on-steel contact, comprising:

- (a) a major amount of a base oil consisting essentially of mineral oil; and
- (b) at least one thiadiazole or derivative thereof present in an amount sufficient to provide a low pulley coefficient of friction of at least 0.0758 ranging from about 0.0758 to about 0.090 for steel-on-steel contact as measured by a Van Doorne push-belt CVT dynamometer test, wherein the thiadiazole is selected from (a) 2-hydrocarbyldithio-5-mercapto-1,3,4-thiadiazole, 2,5-bis-(hydrocarbyldithio)-1,3,4-thiadiazole, and mixtures thereof; (b) 2-hydrocarbylthio-5-mercapto-1,3,4-thiadiazole; and (c) products from combining an oil soluble dispersant with 2,5-dimercapto-1,3,4-thiadiazole (DMTD); and (d) mixtures thereof,

wherein the fluid has improved steel-on-steel friction properties.

## 2. (Canceled)

- (Original) The fluid of claim 1, wherein the thiadiazole is substituted with at least one linear, branched or cyclic saturated or unsaturated hydrocarbon group.
- (Original) The fluid of claim 1, wherein the thiadiazole is present in an amount of from about 0.095 wt% to about 5 wt%.
- (Original) The fluid of claim 1, wherein the thiadiazole is present in an amount of from about 0.3 wt% to about 0.5wt%.
- 6. (Original) The fluid of claim 1, wherein the transmission comprises one or more of a belt-type continuously variable transmission (CVT), chain-type CVT, and toroidal CVT.

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7. (Original) The fluid of claim 1, wherein the improved steel-on-steel friction properties are improved relative to a fluid not comprising the cited amount of the thiadiazole.

- 8. (Canceled).
- 9. (Original) A continuously variable transmission lubricated with the fluid of claim 1.
- 10. (Original) A method of lubricating a transmission having steel-on-steel contact, comprising adding to, and operating in, the transmission a fluid as set forth in claim 1.
- 11. (Currently Amended) An additive composition for use in a transmission having a steel-on-steel contact, comprising at least one thiadiazole or derivative thereof present in an amount sufficient to provide a <a href="Low pulley">Low pulley</a> coefficient of friction of at least 0.0758 ranging from about 0.0758 to about 0.090 for steel-on-steel contact as measured by a <a href="Van Doorne push-belt CVT dynamometer test">Van Doorne push-belt CVT dynamometer test</a>, wherein the thiadiazole is selected from (a) 2-hydrocarbyldithio-5-mercapto-1,3,4-thiadiazole, 2,5-bis-(hydrocarby1dithio)-1,3,4-thiadiazole, and mixtures thereof; (b) 2-hydrocarbylthio-5-mercapto-1,3,4-thiadiazole; and (c) products from combining an oil soluble dispersant with 2,5-dimercapto-1,3,4-thiadiazole (DMTD); and (d) mixtures thereof, wherein the fluid has improved steel-on-steel friction properties.
- 12. (Canceled).
- 13. (Original) The additive composition of claim 11, wherein the thiadiazole is present in an amount of from about 0.95 wt% to about 10 wt%.
- 14. (Original) The additive composition of claim 11, wherein the thiadiazole is present in an amount of from about 3 wt% to about 5 wt%.

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15. (Original) The additive composition of claim 11, wherein the transmission comprises one or more of a belt-type continuously variable transmission (CVT), chain-type CVT, and toroidal CVT.

16. (Original) The additive composition of claim 11, wherein the improved steel-on-steel friction properties are improved relative to a fluid not comprising the cited amount of the thiadiazole.

17. (Original) A continuously variable transmission lubricated with the additive composition of claim 11.

18. (Original) A method of lubricating a transmission having steel-on-steel contact, comprising adding to, and operating in, the transmission a additive composition as set forth in claim 11

19. (Currently Amended) A method of making a power transmitting fluid having steel-on-steel friction-improving capabilities, comprising adding to a major amount of a base oil consisting essentially of mineral oil, a thiadiazole in an amount sufficient to provide a low pulley coefficient of friction of at-least-0.0758 ranging from about 0.0758 to about 0.090 for steel-on-steel contact as measured by a Van Doorne push-belt CVT dynamometer test, wherein the thiadiazole is selected from (a) 2-hydrocarbyldithio-5-mercapto-1,3,4-thiadiazole, 2,5-bis-(hydrocarbyldithio)-1,3,4-thiadiazole, and mixtures thereof; (b) 2-hydrocarbylthio-5-mercapto-1,3,4-thiadiazole; and (c) products from combining an oil soluble dispersant with 2,5-dimercapto-1,3,4-thiadiazole (DMTD); and (d) mixtures thereof.

- 20. (Canceled).
- 21. (Canceled)
- 22. (Canceled)

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23. (Previously Presented) The power transmitting fluid of claim 1, wherein the at least one thiadiazole is present in an amount sufficient to provide a coefficient of friction of at least 0.085 for steel-on-steel contact.

## 24. (Canceled)

- 25. (Previously Presented) The additive composition of claim 11, wherein the at least one thiadiazole is present in an amount sufficient to provide a coefficient of friction of at least 0.085 for steel-on-steel contact.
- 26. (New) A method for achieving a low pulley coefficient of friction ranging from about 0.0758 to about 0.090 for steel-on-steel contact as measured by a Van Doorne push-belt CVT dynamometer test with a lubricating oil by incorporating into the lubricating oil at least one thiadiazole or derivative thereof, wherein the thiadiazole is selected from (a) 2-hydrocarbyldithio-5-mercapto-1,3,4-thiadiazole, 2,5-bis-(hydrocarbyldithio)-1,3,4-thiadiazole, and mixtures thereof; (b) 2-hydrocarbylthio-5-mercapto-1,3,4-thiadiazole; and (c) products from combining an oil soluble dispersant with 2,5-dimercapto-1,3,4-thiadiazole (DMTD); and (d) mixtures thereof.
- 27. (New) A method for providing a lubricant composition capable of achieving a low pulley coefficient of friction ranging from about 0.0758 to about 0.090 for steel-on-steel contact as measured by a Van Doorne push-belt CVT dynamometer test comprising combining with a major amount of a base oil consisting essentially of mineral oil, the additive composition of claim 11.
- 28. (New) A method for lubricating a gear or transmission comprising: contacting said gear or transmission with a lubricant composition wherein said lubricant composition has a low pulley coefficient of friction ranging from about 0.0758

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to about 0.090 for steel-on-steel contact as measured by a Van Doome push-belt CVT dynamometer test, wherein said lubricant composition comprises:

a major amount of a base oil consisting essentially of mineral oil; and at least one thiadiazole or derivative thereof present in an amount sufficient to provide said coefficient of friction, wherein the thiadiazole is selected from (a) 2-hydrocarbyldithio-5-mercapto-1,3,4-thiadiazole, 2,5-bis-(hydrocarbyldithio)-1,3,4-thiadiazole, and mixtures thereof; (b) 2-hydrocarbylthio-5-mercapto-1,3,4-thiadiazole; and (c) products from combining an oil soluble dispersant with 2,5-dimercapto-1,3,4-thiadiazole (DMTD); and (d) mixtures thereof.

29. (New) The method of making a power transmission fluid of claim 19, wherein the at least one thiadiazole or derivative thereof is present in an amount sufficient to provide a low pulley coefficient of friction of greater than about 0.085.